

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Yoshinura et al
 March 30, 1989
 Faris, Stewart, Kolasch
 & Birch
 (703) 241-1300
 1173-145P

FIGURE 1

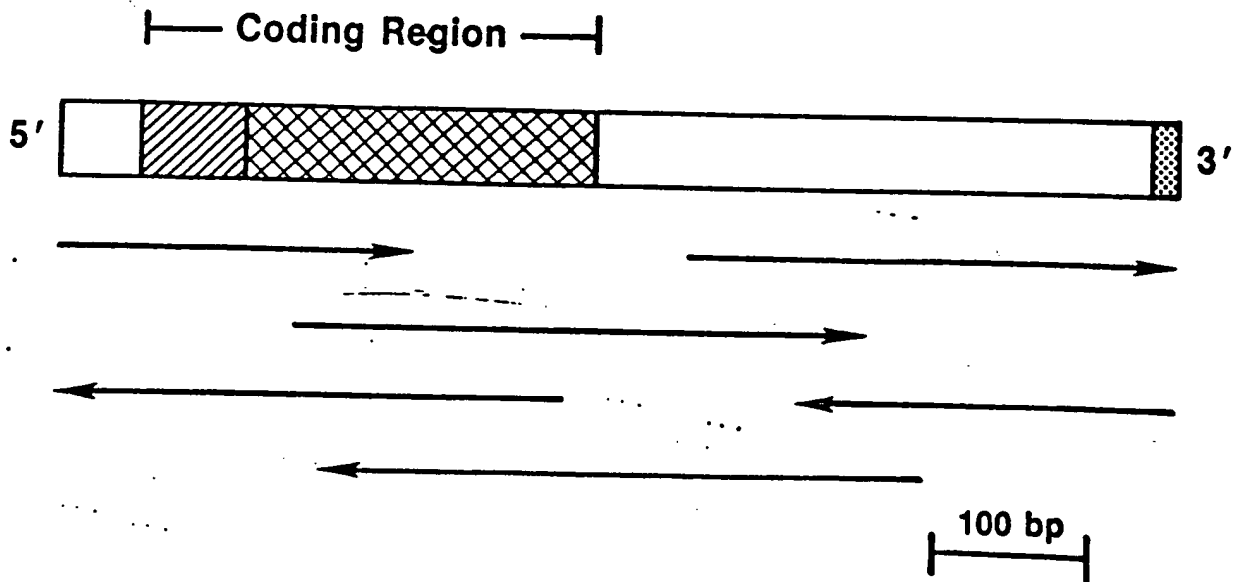
07/330446

A. SP-4: $\text{NH}_2\text{-Met-Asp-His-Leu-Asp-Lys-Gln-Thr-Gln-COOH}$

B. SP-4-A: 5'-GT ^{C I C C A C A A} TG GT TG TT TC AA TG TCCAT-3'
 T C T T G T G G

SP-4-B: 5'-GT ^{C I C C A I A A} TG GT TG TT TC AG TG TCCAT-3'
 T C T T G C G G

C.



over

07/330446 Yoshimura et al
March 30, 1989
Burch, Stewart,
Kobayashi & Berch
(703) 241-1300
1173-145P

FIGURE 2

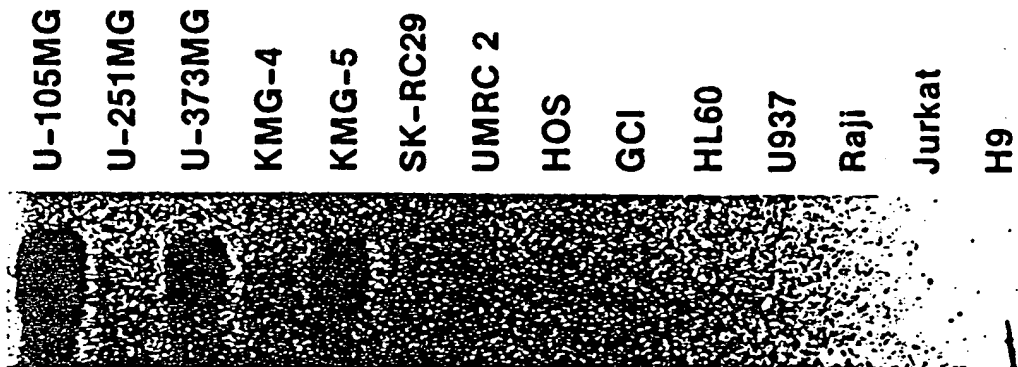
CTAACCAGAAACATCCATTCTCAACTGAAGCTCGCACTCTCGCCTCAGC
-50 -40 -30 -20 -10 -1
ATG AAA GTC TCT GCC GCC CTT CTG TGC CTG CTC ATA GCA GCC ACC TTC ATT CCC CAA
Met Lys Val Ser Ala Ala Leu Leu Cys Leu Leu Ile Ala Ala Thr Phe Ile Pro Gln
70 80 90 100 110 120
GGG CTC GCT CAG CCA GAT GCA ATC AAT GCC CCA GTC ACC TGC TGT TAT AAC TTC ACC AAT
Gly Leu Ala Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr
130 140 150 160 170 180
AGG AAG ATC TCA GTG CAG AGG AGC CTC GCG AGC TAT AGA AGA ATC ACC ACC AGC AGC AAG TGT CCC
Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Pro
190 200 210 220 230 240
AAA GAA GCT GTG ATC TTC AAG ACC ATT GTG GCC AAG GAG ATC TGT GCT GAC CCC AAG CAG
Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala Lys Glu Ile Cys Ala Asp Pro Lys Gln
250 260 270 280 290 300
AAG TGG GTT CAG GAT TCC ATG GAC CAC CTG GAC AAG CAA ACC CAA ACT CCG AAG ACT TGA
Lys Trp Val Gln Asp Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr
310 320 330 340 350 360 370 38
ACACTCACTCCACAACCAAGAATCTGCAGCTAATTATTTCCCTAGCTTCCCGAGACACCCTGTTTATTATT
0 390 400 410 420 430 440 450 4
ATAATGAATTTTGTGTTGATGATGGAACATTATGCTTAAGTAATGTTAATTTAAGTAATGATGTTTAAG
60 470 480 490 500 510 520 530
TTTATCTTTCATGTTGTTGTTGTTTATGATACAGAGACTGGGAAATGCTTTTCTCTTGAACACAGTTCTACC
540 550 560 570 580 590 600 610
CCTGGGATGTTTGAGGGCTTTGCAAGAATCATTATACAAAGAATTTTAAACATTCCAATGCAATTGCTAAATA
620 630 640 650 660 670 680
TTATTGTGAAATGAATATTTTGTAACTATTACACCAATAATAATATATTTTGTACCAAAAAA
.....

over

07/330446

Yoshinura et al
March 30, 1989
Birch, Steward,
Kolisch & Birch
(703) 41-1300
1173-145P

FIGURE 3

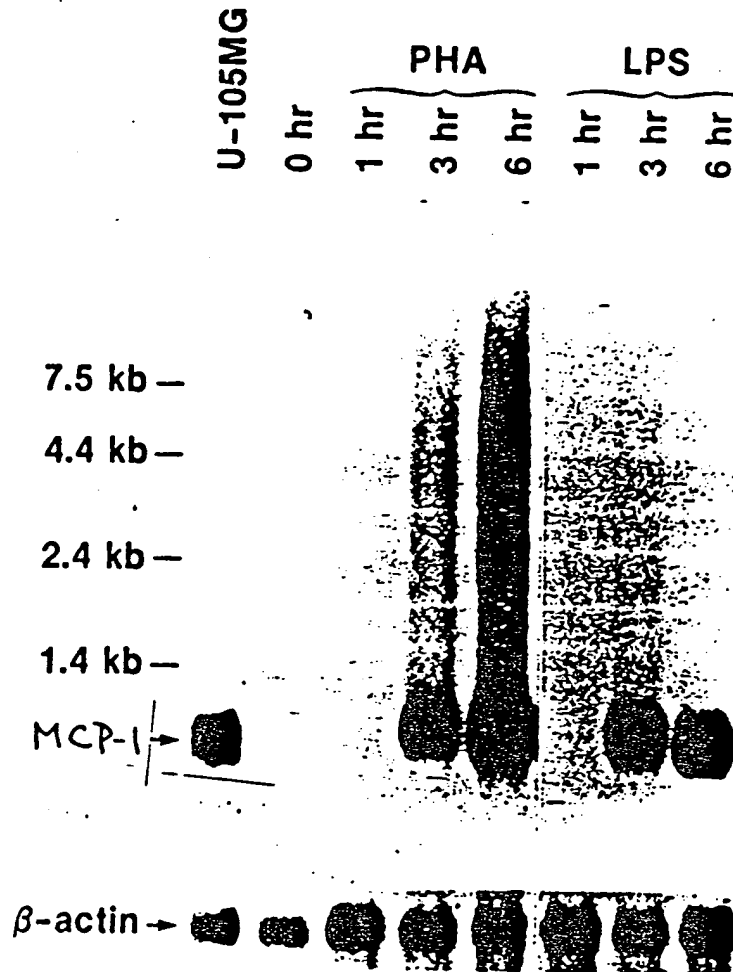


over

07/330446

Yoshimura et al
March 30, 1989
Burch, Stewart,
Kolasek & Burch
(703) 241-1300
1173-1450

FIGURE 4A



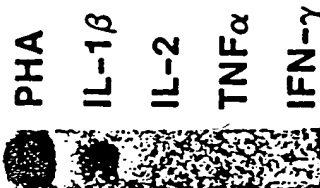
over

07/330446

Yoshimura et al
March 30, 1989

Birch, Stewart,
Kolasch & Birch
(703) 241-1300
1173-1450

FIGURE 4B

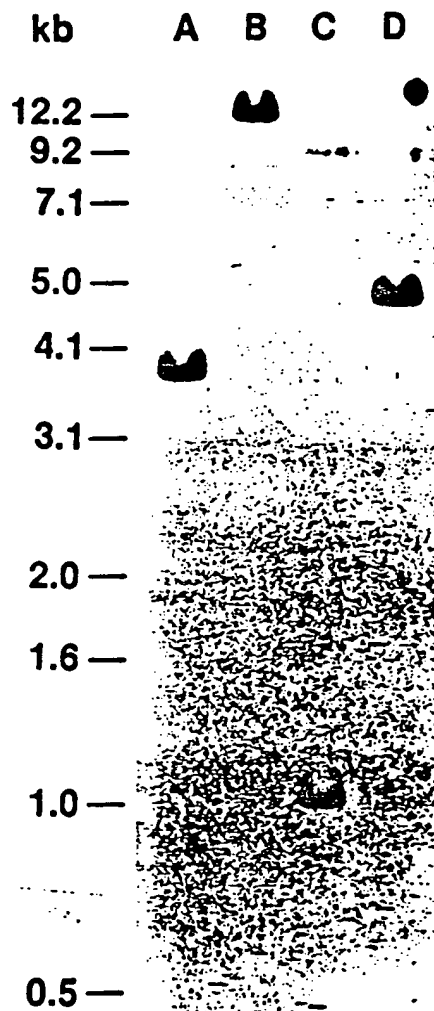


over

March 30, 1989

Burch, Stewart,
Kelasa + Burch
(203) 241-1300
1173-1450

FIGURE 5



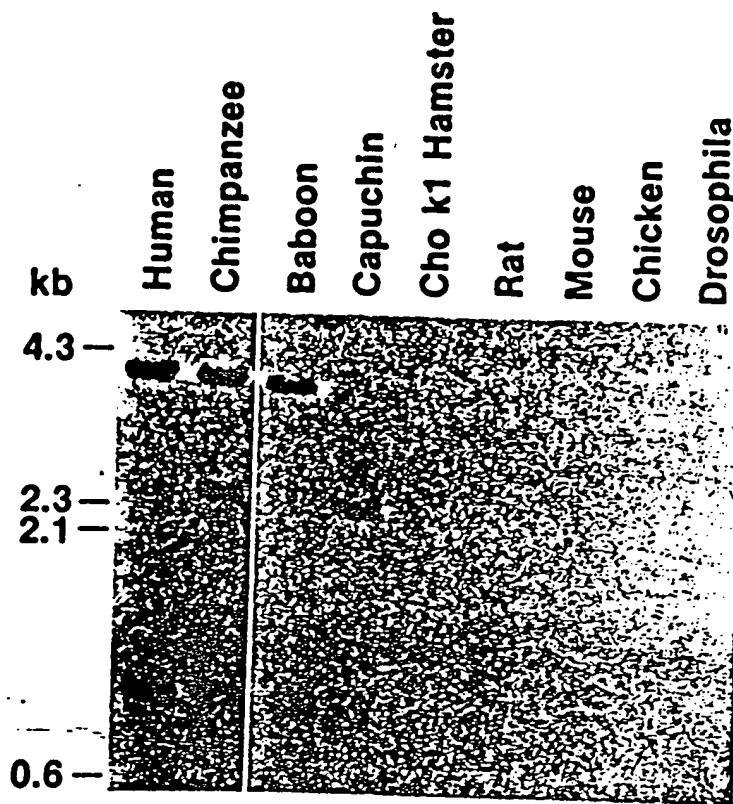
over

07/330446

Moshimura et al
March 30, 1989

Birch, Steward,
Kotasek & Birch
(703) 241-1300
1173-145P

FIGURE 6



over